

XRT Timeline to be uploaded on 2010/07/06

Period: 2010/07/06 10:50:00 - 2010/07/10 08:59:00

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Normal mode

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XOB #1775: HOP130 Al/mesh short(128ms)/long(2048ms) + Ti/poly short(256ms)/long(4096ms) FOV 512x512 - bin 1x1													
Term	Pointing (x, y)		Comment										
07/06 11:03:02 - 07/06 11:15:54	Fixed (	936.0, 0.0)	# OP start + 10min : HOP130 = full disk scan (1/15)									
07/06 11:19:02 - 07/06 11:38:00	Fixed (	468.0, 0.0)	HOP130 (2/15)									
07/06 12:11:09 - 07/06 12:23:54	Fixed (	0.0, 0.0)	HOP130 (3/15)									
07/06 12:27:02 - 07/06 12:39:54	Fixed (-	468.0, 0.0)	HOP130 (4/15)										
07/06 12:43:02 - 07/06 12:55:54	Fixed (-	936.0, 0.0)	HOP130 (5/15)										
07/06 12:59:02 - 07/06 13:16:30	Fixed (	815.0, 470.0)	HOP130 (6/15)									
07/06 13:47:30 - 07/06 14:02:24	Fixed (	411.0, 847.0)	HOP130 (7/15)									
07/06 14:05:32 - 07/06 14:18:24	Fixed (	0.0, 941.0)	HOP130 (8/15)									
07/06 14:21:32 - 07/06 14:34:24	Fixed (-	411.0, 847.0)	HOP130 (9/15)										
07/06 14:37:32 - 07/06 14:44:24	Fixed (-	815.0, 470.0)	HOP130 (10/15)										
07/06 14:47:32 - 07/06 14:55:00	Fixed (	815.0, -470.0)	HOP130 (11/15)									
07/06 15:51:02 - 07/06 16:03:54	Fixed (	411.0, -847.0)	HOP130 (12/15)									
07/06 16:07:02 - 07/06 16:33:30	Fixed (	0.0, -941.0)	HOP130 (13/15)									
07/06 17:27:32 - 07/06 17:40:24	Fixed (-	411.0, -847.0)	HOP130 (14/15)										
07/06 17:43:32 - 07/06 17:57:24	Fixed (-	815.0, -471.0)	HOP130 (15/15)										
PROG= 07 1-time(s)													
└─ Subr= 2 1-time(s) 2.0sec													
└─ Seqn= 62 1-time(s) 2.0sec													
└─	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	125ms	Obs	1x1	512x512 (1024, 1024)	Q=95	0	0	2.0sec
└─	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	2.00s	Obs	1x1	512x512 (1024, 1024)	Q=95	0	0	2.0sec
└─ Seqn= 60 1-time(s) 2.0sec													
└─	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	512x512 (1024, 1024)	Q=95	0	0	2.0sec
└─	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	4.00s	Obs	1x1	512x512 (1024, 1024)	Q=95	0	0	2.0sec
└─ Seqn= 61 1-time(s) 2.0sec													
└─	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	1.00s	Obs	1x1	512x512 (1024, 1024)	DPCM	0	0	2.0sec
Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval													

XOB #17B9: Synoptic Q95 2x2 - Al/mesh(16/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 -1x1 2048x512) + Ti-poly(33/2048) + G-band(16)													
Term	Pointing (x, y)		Comment										
07/06 18:00:30 - 07/06 18:55:30	Fixed (	0.0, 0.0)	synoptic, shifted -2.5 min									
07/07 06:20:06 - 07/07 06:53:29	Fixed (	0.0, 0.0)	synoptic for 06:17-06:27, and also for SOT flat field.									
07/07 18:00:00 - 07/07 18:06:54	Fixed (	0.0, 0.0)	synoptic, shifted -3.0 min									
07/08 05:45:30 - 07/10 08:59:00	Fixed (	0.0, 0.0)	synoptic, shifted -17.5 min; SOT engineering									
PROG= 03 1-time(s)													
└─ Subr= 1 1-time(s) 12.0sec													
└─ Seqn= 7 1-time(s) 4.0sec													
└─	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└─	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└─ Seqn= 5 1-time(s) 2.0sec													
└─	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	8x8	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	2048x512 (1024, 1024)	DPCM	0	0	2.0sec
└─	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	512x2048 (1024, 1024)	DPCM	0	0	2.0sec
└─ Seqn= 8 1-time(s) 4.0sec													
└─	Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	32ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└─	Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└─ Seqn= 4 1-time(s) 2.0sec													
└─	Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval													

XOB #17E1: AR Dynamics- Ti/Poly(384FOV) AEC2_3 Q95, G-band(512FOV) - 3min cadence-wide-FOV													
Term	Pointing (x, y)		Comment										
07/06 18:58:36 - 07/06 21:29:00	Track (	720.4, -388.2)	AR11084									
07/07 08:03:02 - 07/07 17:11:00	Track (	778.7, -382.5)	AR11084									
PROG= 06 Inf.-time(s)													
└─ Subr= 1 1-time(s) 30.0sec													
└─ Seqn= 27 1-time(s) 30.0sec													
└─	Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	512x512 (1064, 1048)	Q=98	0	0	2.0sec
└─ Subr= 2 15-time(s) 180.0sec													
└─ Seqn= 58 1-time(s) 2.0sec													
└─	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	512x384 (1024, 1024)	Q=95	3	0	2.0sec
└─ Seqn= 59 1-time(s) 2.0sec													
└─	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	512x384 (1024, 1024)	Q=95	2	0	2.0sec
Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval													

XOB #17E0: Coronal cavity Al/mesh, Ti/poly, G-band-DPCM 2x2-512x512-FOV -AEC2-3min cadence-SW offset												
Term	Pointing (x, y)		Comment									
07/06 22:10:06 - 07/07 03:51:30	Fixed (	500.0, -815.0)	HOP114: prominence cavity									

PROG= 04 Inf.-time(s)												
Subr= 2	1-time(s)	2.0sec										
Seqn= 31	1-time(s)	2.0sec										
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	512x512 (1152, 1152)	Q=95	0	0	2.0sec
Subr= 1	20-time(s)	180.0sec										
Seqn= 55	1-time(s)	2.0sec										
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	1.00s	Obs	2x2	768x768 (1152, 896)	DPCM	2	0	2.0sec
Seqn= 56	1-time(s)	2.0sec										
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	4.00s	Obs	2x2	768x768 (1152, 896)	DPCM	2	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #17A9: Full-disk Full-Res Al/Mesh, Ti/Poly, Thick/Al - 2 loops												
Term	Pointing (x, y)					Comment						
07/07 04:36:06 - 07/07 05:32:00	Fixed (0.0, 0.0)					synoptic for 06:17-06:27, and also for SOT flat field.						
07/07 06:56:35 - 07/07 07:59:54	Fixed (0.0, 0.0)					synoptic for 06:17-06:27, and also for SOT flat field.						

PROG= 08 1-time(s)												
Subr= 1	2-time(s)	300.0sec										
Seqn= 13	1-time(s)	2.0sec										
Open/thick-Al	Open/thick-Al	close	Safe	Norm	22.6s	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 12	1-time(s)	2.0sec										
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.00s	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 11	1-time(s)	2.0sec										
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	250ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Subr= 2	1-time(s)	2.0sec										
Seqn= 14	1-time(s)	2.0sec										
Open/Ti-poly	Open/Ti-poly	close	Safe	Dark	1.00s	Obs	1x1	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #17E3: HOP165-AR/CH Boundary-Dynamics-Al/Mesh-Ti/Poly- 512x512												
Term	Pointing (x, y)					Comment						
07/07 18:10:02 - 07/07 23:06:54	Track (445.4, 146.8) ^{07/07 18:07:00}					HOP165: CH near AR (5 hours)						
07/07 23:10:02 - 07/08 05:42:24	Track (353.9, 283.1) ^{07/07 23:07:00}					HOP165: AR (1hr40m)						

PROG= 09 Inf.-time(s)												
Subr= 1	1-time(s)	120.0sec										
Seqn= 53	1-time(s)	2.0sec										
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.00s	Obs	1x1	512x512 (1024, 1024)	Q=90	2	0	2.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	1x1	512x512 (1024, 1024)	Q=90	2	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

* * * * * **Flare mode** * * * * *

XOB #1776: Flare Response short exp at first- Dynamics - Thick-Al - Thick-Be - AEC 1 - 384x384 - Q95												
Term	Pointing (x, y)					Comment						
07/06 11:03:02 - 07/06 11:15:54	Fixed (936.0, 0.0)					# OP start + 10min : HOP130 = full disk scan (1/15)						
07/06 11:19:02 - 07/06 11:38:00	Fixed (468.0, 0.0)					HOP130 (2/15)						
07/06 12:11:09 - 07/06 12:23:54	Fixed (0.0, 0.0)					HOP130 (3/15)						
07/06 12:27:02 - 07/06 12:39:54	Fixed (-468.0, 0.0)					HOP130 (4/15)						
07/06 12:43:02 - 07/06 12:55:54	Fixed (-936.0, 0.0)					HOP130 (5/15)						
07/06 12:59:02 - 07/06 13:16:30	Fixed (815.0, 470.0)					HOP130 (6/15)						
07/06 13:47:30 - 07/06 14:02:24	Fixed (411.0, 847.0)					HOP130 (7/15)						
07/06 14:05:32 - 07/06 14:18:24	Fixed (0.0, 941.0)					HOP130 (8/15)						
07/06 14:21:32 - 07/06 14:34:24	Fixed (-411.0, 847.0)					HOP130 (9/15)						
07/06 14:37:32 - 07/06 14:44:24	Fixed (-815.0, 470.0)					HOP130 (10/15)						
07/06 14:47:32 - 07/06 14:55:00	Fixed (815.0, -470.0)					HOP130 (11/15)						
07/06 15:51:02 - 07/06 16:03:54	Fixed (411.0, -847.0)					HOP130 (12/15)						
07/06 16:07:02 - 07/06 16:33:30	Fixed (0.0, -941.0)					HOP130 (13/15)						
07/06 17:27:32 - 07/06 17:40:24	Fixed (-411.0, -847.0)					HOP130 (14/15)						
07/06 17:43:32 - 07/06 17:57:24	Fixed (-815.0, -471.0)					HOP130 (15/15)						
07/06 18:58:36 - 07/06 21:29:00	Track (720.4, -388.2) ^{07/06 18:07:30}					AR11084						
07/06 22:10:06 - 07/07 03:51:30	Fixed (500.0, -815.0)					HOP114: prominence cavity						
07/07 08:03:02 - 07/07 17:11:00	Track (778.7, -382.5) ^{07/07 08:00:00}					AR11084						
07/07 18:10:02 - 07/07 23:06:54	Track (445.4, 146.8) ^{07/07 18:07:00}					HOP165: CH near AR (5 hours)						
07/07 23:10:02 - 07/08 05:42:24	Track (353.9, 283.1) ^{07/07 23:07:00}					HOP165: AR (1hr40m)						

PROG= 01 1-time(s)												
Subr= 1	2-time(s)	2.0sec										
Seqn= 9	15-time(s)	20.0sec										
Open/thick-Al	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Seqn= 2	1-time(s)	4.0sec										
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Subr= 2	8-time(s)	2.0sec										
Seqn= 9	15-time(s)	60.0sec										
Open/thick-Al	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Seqn= 2	1-time(s)	4.0sec										

Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Subr= 3 25-time(s) 2.0sec												
Seqn= 9 1-time(s) 600.0sec												
Open/thick-Al	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Seqn= 2 1-time(s) 4.0sec												
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

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Active Region Search

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NOT USED

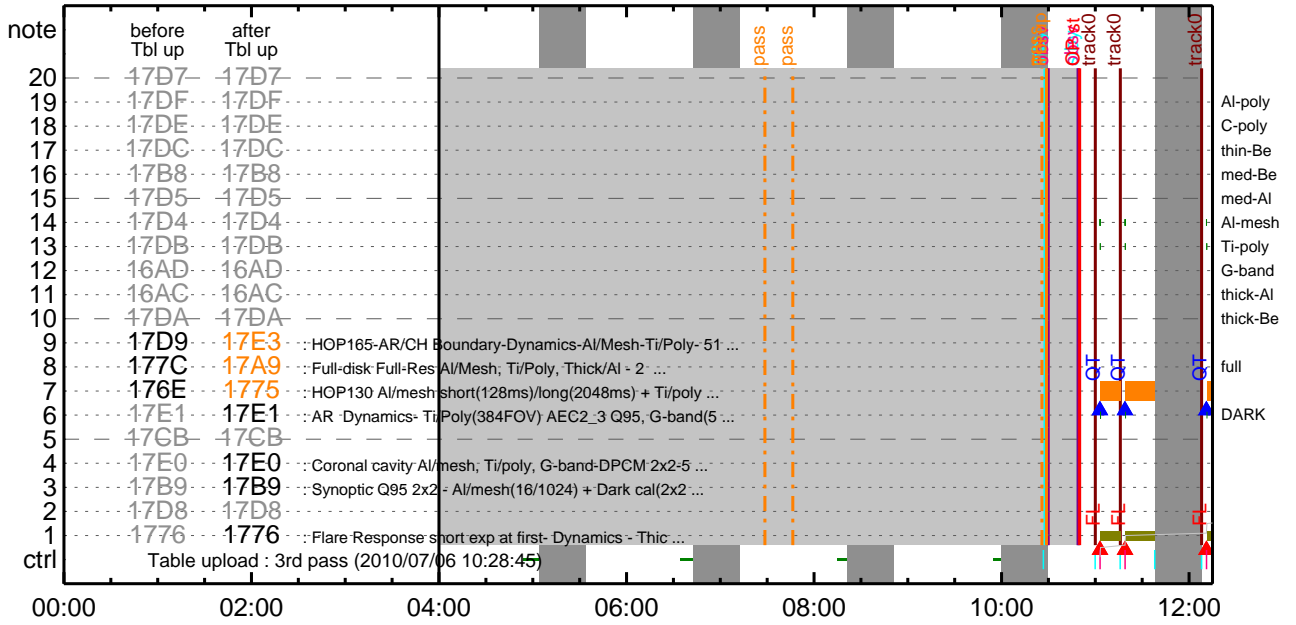
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Flare Detection

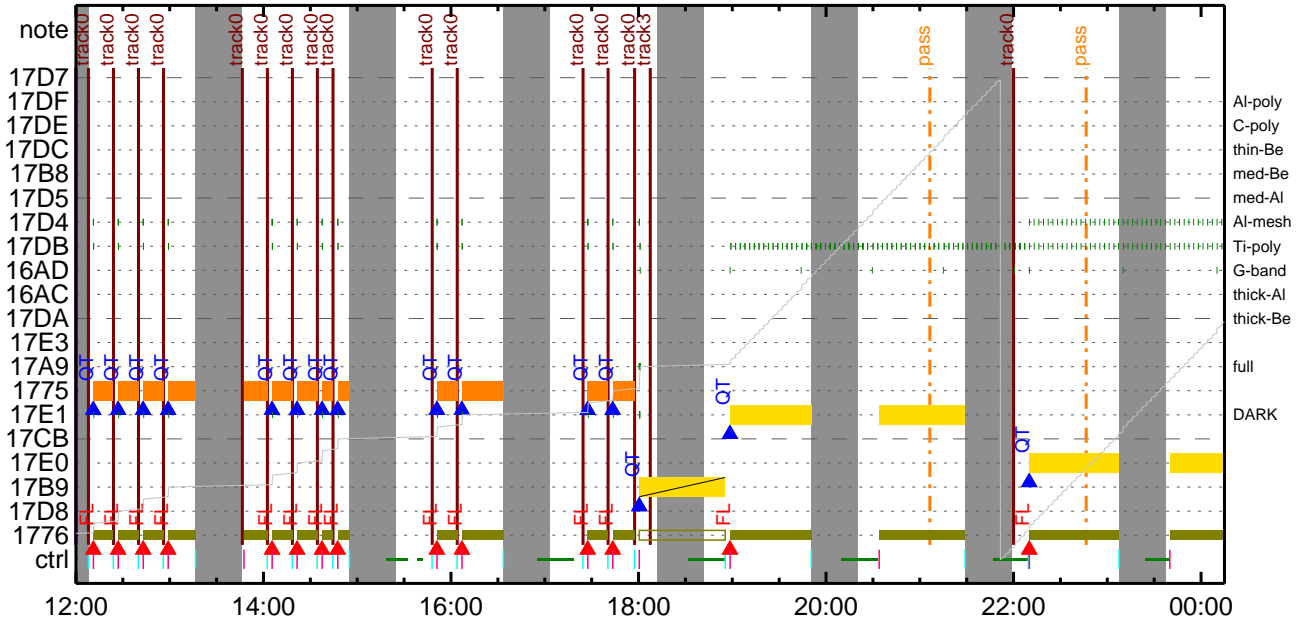
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FLD Patrol												
Term		Pointing (x, y)					Comment					
07/06 11:00:16 - 07/06 17:57:46		Fixed (936.0, 0.0)					# OP start + 10min : HOP130 = full disk scan (1/15)					
07/06 18:55:52 - 07/07 04:33:22		Track (720.4, -388.2) ^{Ⓢ 07/06 18:07:30}					AR11084					
07/07 08:00:18 - 07/07 17:57:16		Track (778.7, -382.5) ^{Ⓢ 07/07 08:00:00}					AR11084					
07/07 18:07:18 - 07/08 05:42:46		Track (445.4, 146.8) ^{Ⓢ 07/07 18:07:00}					HOP165: CH near AR (5 hours)					
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	8ms	Obs	8x8		Q=50			30sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

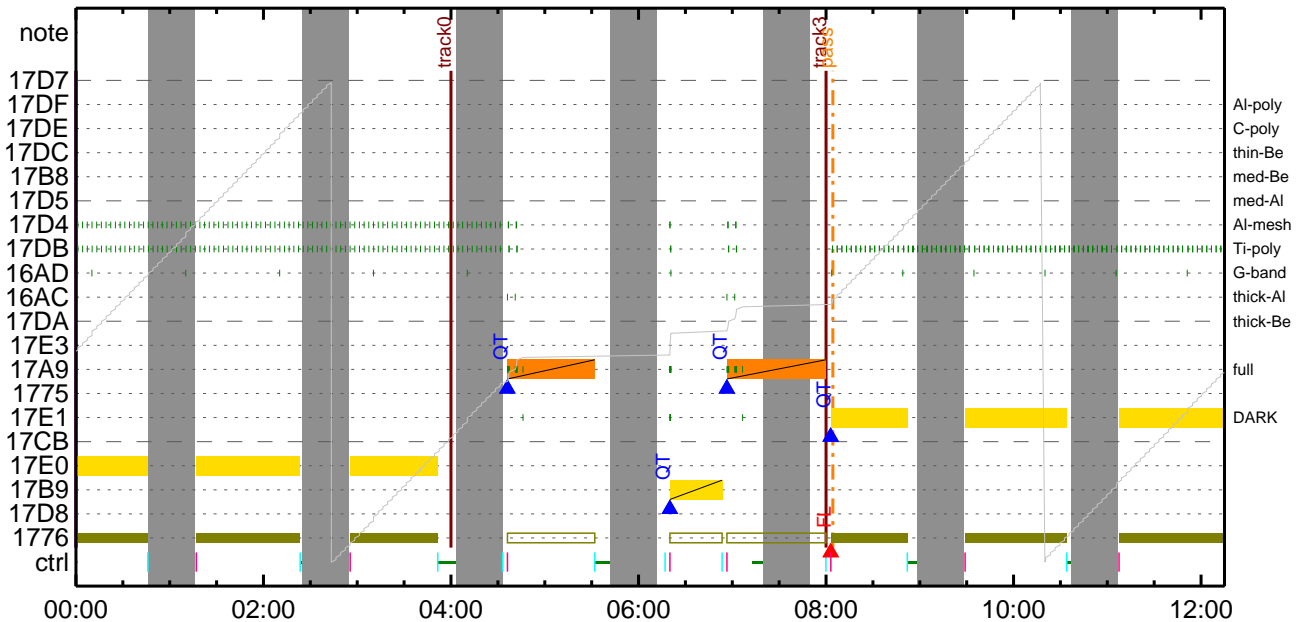
CMDI #0357 2010/07/06



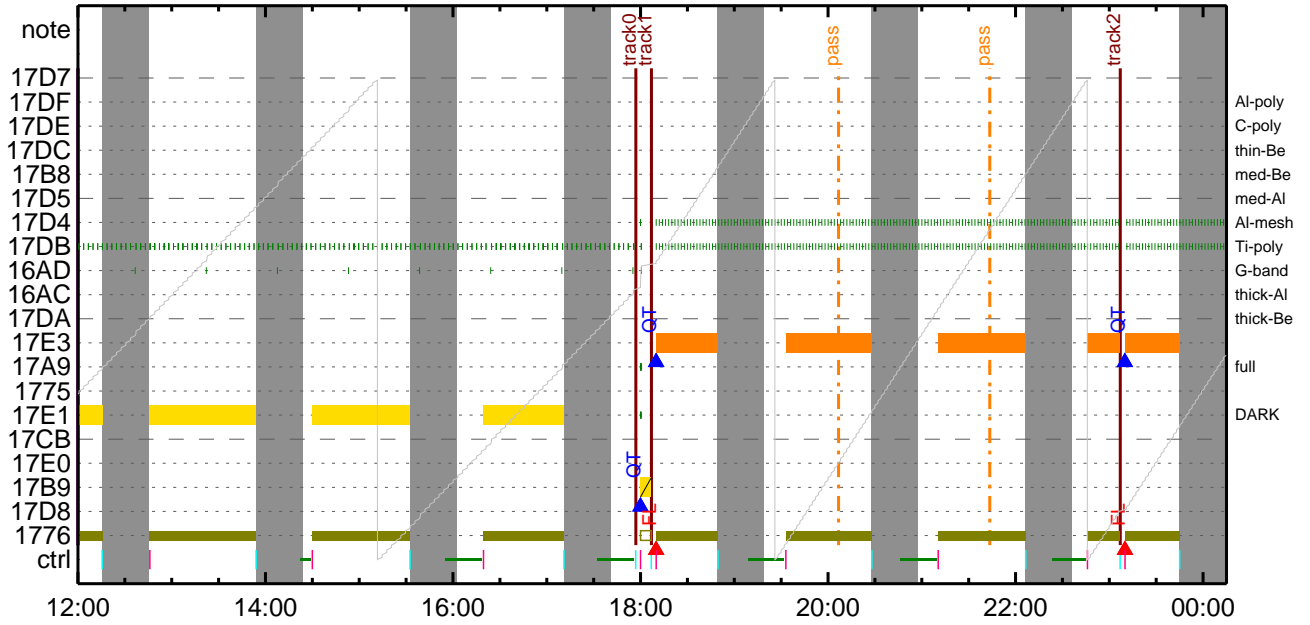
CMDI #0357 2010/07/06



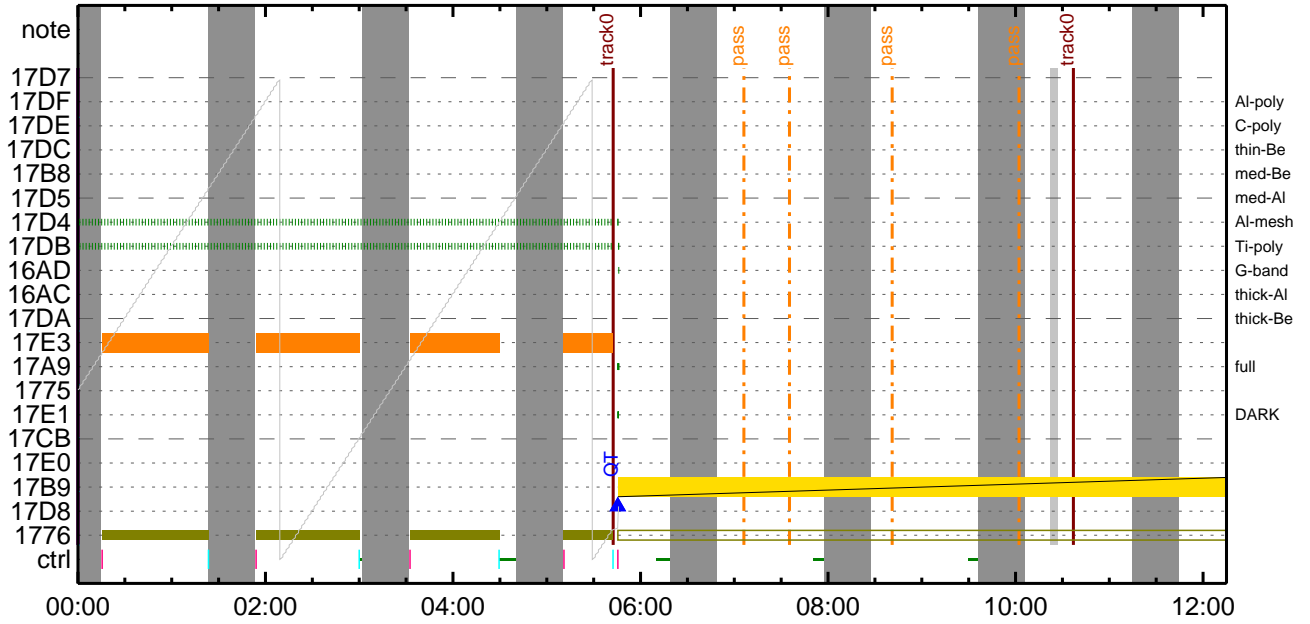
CMDI #0357 2010/07/07



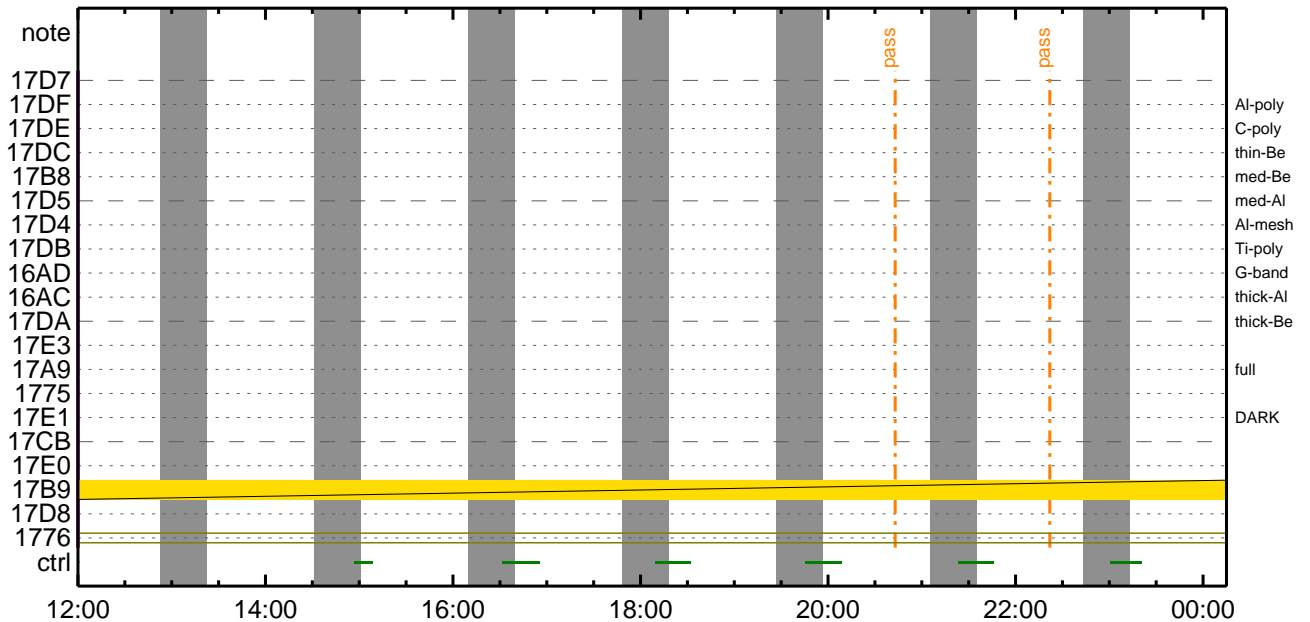
CMDI #0357 2010/07/07



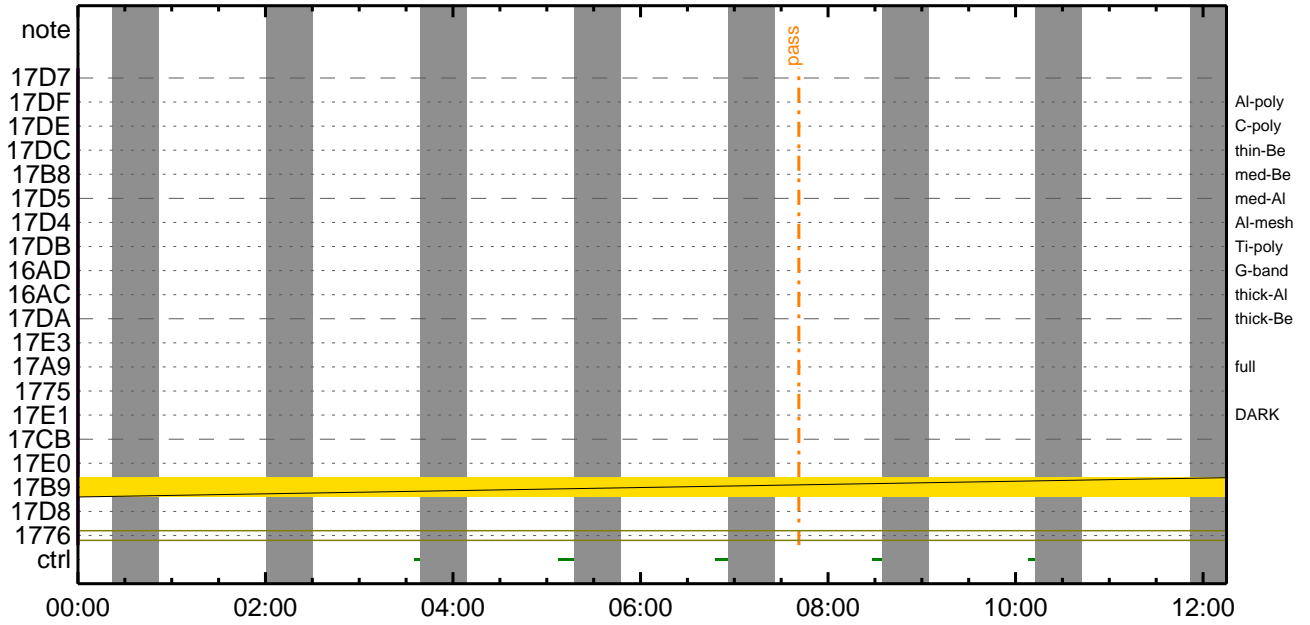
CMDI #0357 2010/07/08



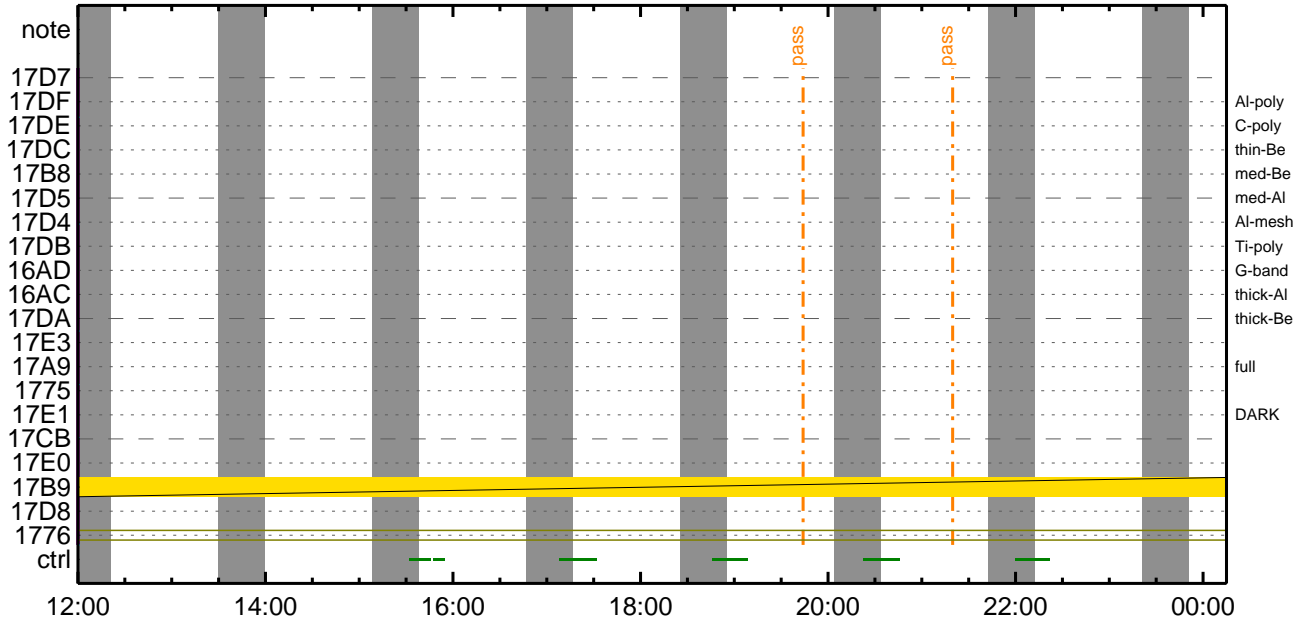
CMDI #0357 2010/07/08



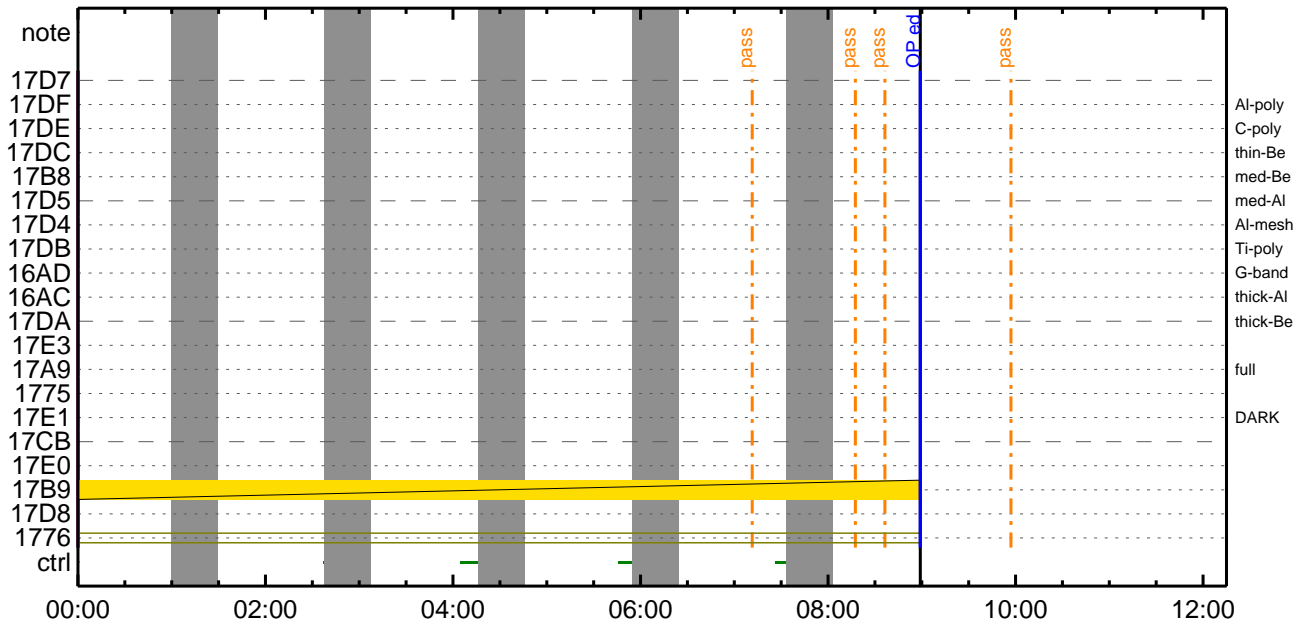
CMDI #0357 2010/07/09



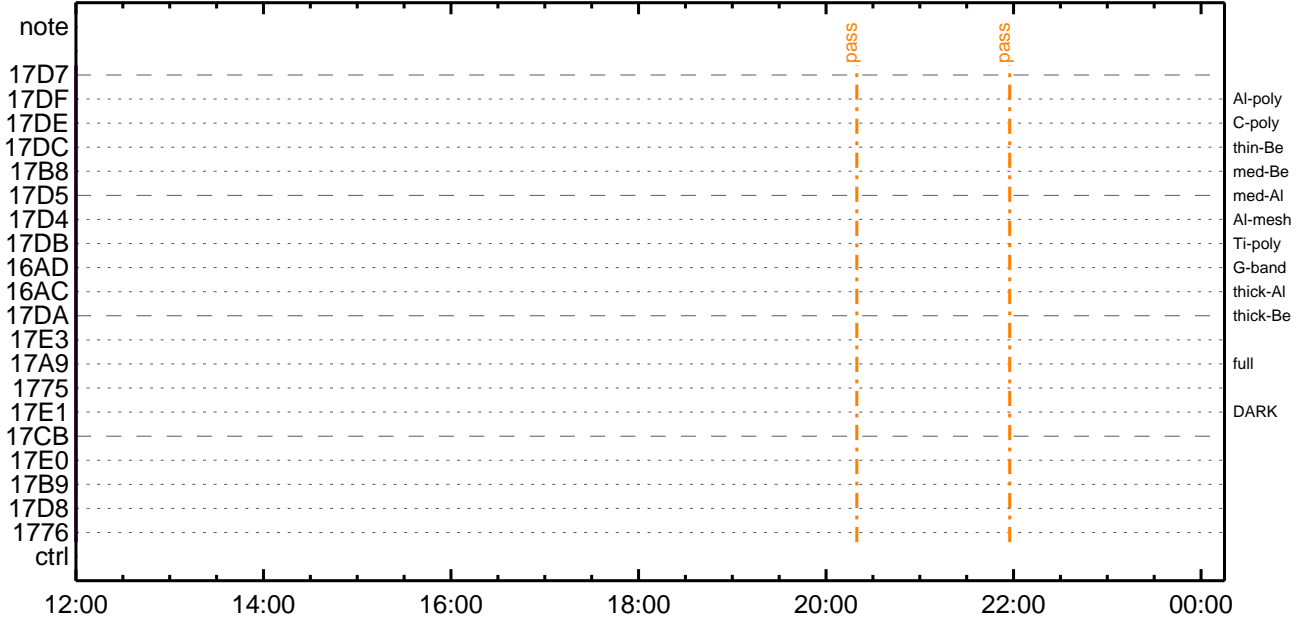
CMDI #0357 2010/07/09



CMDI #0357 2010/07/10



CMDI #0357 2010/07/10



(a) Spacecraft Operation Procedure (real-commands)

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main-450 2010-07-06 13:50:12 289 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSÝÁÝ$ÝÁÝ-¼Ä»Û;ä
0005 C.
0006 C. ÝÀÝÈ;¼Ý³ÝÈÝÖÝÉÄ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C.  Äí;È¿¿ÁÁ•µ°È»Í×ÁÇ¿ÍÝÇÝÁÝ×ÝÍ;¼ÝÈ;ÈÈÈ¼µ•íÈÈ;ÈÈÈ¼°Ç¿Á•µ¿¼í¹Ç¿Í;çÄ®, ùµ¹åµµµÇÄ+¿®•µÈµµµ³µÈ;È
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÄ+¿µ;ON
0016 C. *****
0017 C. ç" °ÄÄ, Í×ÈÝ¿ÁÁ¿ÁµµÇ¿Í»p´Öµ¿íÍ, µ.; çÈÓÍ×µÈXÄÓONÄí¹ÔµÈµµ³µÈ;È;È
0018 C.
0019 +. DC 03-B4 TCIA_XPA_ON/HI
0020 M. WAIT_SEC 1
0021 + DC 03-84 TCIA_XMOD_ON
0022 M. WAIT_SEC 1
0023 + DC 03-95 TCIA_XMOD_QPSK
0024 C. çç[HK1_XPA_ON/OFF] EQ ON
0025 C. çç[HK1_XPA_PWR_HI/LO] EQ HI
0026 C. çç[HK1_XMOD_ON/OFF] EQ ON
0027 C. çç[HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XYDÝÖÝÉÝÍÝÁÝ-¼¿ÁÖµ-°ÄÄÈµ•µ¿µé; ç°È²¼µí°ÄÄ, ¼È¼Çµ¿¼Ä¹Ôµ¹µé;È
0030 C.
0031 . C. *****
0032 C. DR PT1 ÄÍ¼í°ÄÄ,
0033 C. *****
0034 C. ç" RESTART;ÈPT1;Èµ•µ¿µ¼í¹Ç¿Í; ç°È²¼µí°ÄÄ»µ°; çDCBC-150¿¿¿Èµ¿;È
0035 C.
0036 . C. ;ãPT1°ÄÄ, ³«»Í;ä
0037 +. DC 01-29 DHU_S/X_VC4_OFF
0038 + DC 06-C8 DR_PT1_REP_SEL
0039 BC (01 00)
0040 + DC 06-B3 DR_REP_START
0041 + DC 01-32 DHU_X_VC4_ON
0042 C. çç[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ô, ;¼Ú)
0043 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ô, ;¼Ú)
0044 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô, ;¼Ú)
0045 C.
0046 . C. ;ãÝçÝÖÝÈÝÄÜÄ¿;ÈÄ•Ä²¿È¿;È, äµí°ÄÄ, °Ä³«;ä
0047 +. DC 06-B3 DR_REP_START
0048 + DC 01-32 DHU_X_VC4_ON
0049 C. çç[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ô, ;¼Ú)
0050 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ô, ;¼Ú)
0051 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô, ;¼Ú)
0052 C.
0053 C.
0054 . C. PT1°ÄÄ, µ-¼«ÄÄ»µµ¿µ¿, ä; ç°È²¼µ¿¼Ä¹Ôµ¹µé;È
0055 C. ÝçÝÖÝÈÝÄÜÄ¿ÄÄ•Ä²¿È¿µ-¼áµ¼í¹Ç¿Í°ÄÄ»µ°µµµµÇÄÔµÄ;È
0056 C.
0057 . C. *****
0058 C. DR PT2 ÄÍ¼í°ÄÄ,
0059 C. *****
0060 C. ç" RESTART;ÈPT2;Èµ•µ¿µ¼í¹Ç¿Í; ç°È²¼µí°ÄÄ»µ°; çDCBC-151¿¿¿Èµ¿;È
0061 C.
0062 . C. ;ãPT2°ÄÄ, ³«»Í;ä
0063 +. DC 01-29 DHU_S/X_VC4_OFF
0064 + DC 06-C8 DR_PT2_REP_SEL
0065 BC (02 00)
0066 + DC 06-B3 DR_REP_START
0067 + DC 01-32 DHU_X_VC4_ON
0068 C. çç[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ô, ;¼Ú)
0069 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ô, ;¼Ú)
0070 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô, ;¼Ú)
0071 C.
0072 . C. ;ãÝçÝÖÝÈÝÄÜÄ¿;ÈÄ•Ä²¿È¿;È, äµí°ÄÄ, °Ä³«;ä
0073 +. DC 06-B3 DR_REP_START
0074 + DC 01-32 DHU_X_VC4_ON
0075 C. çç[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ô, ;¼Ú)
0076 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ô, ;¼Ú)
0077 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô, ;¼Ú)
0078 C.
0079 . C. *****
0080 C. DR°ÄÄ, ÄÄ»µµ; çXÄ+¿µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°ÄÄ, ÄÄ»µµ;ä
0084 +. DC 06-B4 DR_REP_STOP
0085 + DC 01-29 DHU_S/X_VC4_OFF
0086 C. çç[HK1_REP_STA/STP] EQ STOP
0087 C. çç[HK1_S_VC4_ON/OFF] EQ OFF
0088 C. çç[HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. ;ãXÄ+¿µ;OFF;ä
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 + DC 03-B5 TCIA_XPA_OFF
0094 C. çç[HK1_XMOD_ON/OFF] EQ OFF
0095 C. çç[HK1_XPA_ON/OFF] EQ OFF
```



```

0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;|YAY6Yx
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-450:OP
0104 ( )
0105 S. OG og-450:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPfî°èYAY6Yx;ã
0109 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0110 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0111 BC (20 00 7f 01 02)
0112 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0113 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0114 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0115 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0116 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0117 +. DC 01-22 DHU_MODE_CHNG
0118 BC (07 0b f8)
0119 C. çç[HK1_PKT_FORM_NO] EQ 7
0120 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0121 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0122 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0123 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0124 C. YAY6Yx½ªî»ò³îÇ§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOGãî½ª¹ç•è²îOKò³îÇ§
0127 C.
0128 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0129 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0130 BC (20 80 7f 01 02)
0131 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0132 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0133 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0134 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0135 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0136 +. DC 01-22 DHU_MODE_CHNG
0137 BC (07 0b f8)
0138 C. çç[HK1_PKT_FORM_NO] EQ 7
0139 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0140 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0141 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0142 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0143 C. YAY6Yx½ªî»ò³îÇ§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOGãî½ª¹ç•è²îOKò³îÇ§
0146 C.
0147 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0148 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0149 BC (21 00 41 01 02)
0150 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0151 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0152 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0153 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0154 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0155 +. DC 01-22 DHU_MODE_CHNG
0156 BC (07 0b f8)
0157 C. çç[HK1_PKT_FORM_NO] EQ 7
0158 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0159 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0160 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0161 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0162 C. YAY6Yx½ªî»ò³îÇ§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OPãî½ª¹ç•è²îOKò³îÇ§
0165 C.
0166 C. ***** òê²¼òî½ª¹ç•è²îOKò³îÇ§ *****
0167 C. DHUYã;4YE;ê½ª¹ç•è²îOKò³îÇ§
0168 +. DC 01-22 DHU_MODE_CHNG
0169 BC (02 0a f8)
0170 C. çç[HK1_PKT_FORM_NO] EQ 2
0171 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0172 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0173 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0174 C.
0175 C. *****
0176 C. TI-CMD SET (OPOG STOP/COPY/START)
0177 C. *****
0178 C.
0179 C. NOTICE ;§ OPOG UPLOADã-Á÷ç@NGUî½ª¹ç•è²îOKò³îÇ§
0180 C. òê²¼òî½ª¹ç•è²îOKò³îÇ§
0181 C.
0182 C. TIY³YpY6YêòðÁDîç(UT)
0183 +. TI 2010-07-06 10:45:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2010-07-06 10:45:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2010-07-06 10:45:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

```


(a) Spacecraft Operation Procedure (real-commands)

```
main-451 2010-07-06 13:50:12 91 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY~¼Á»Û;ã
0005 C.
0006 C. YÁYB;¼Y³YFÝÖYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Ë±±A±•µ°Æ»Í×ÁÇ±ÍYçYÁY×Yí;¼YÉ;ËÈè¼µ•íÉ;Ë±E¼°ÇÖ±•±¿¼i¹ç±í;çÁ®, ù±¹±±±±±çÁ+¿®±•±Ë±±±³±È;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. ***** AOCs Commands (Tracking Curve Upload) *****
0015 C. Upload the Orbit Element and the Target Attitude
0016 C. RAM-ID:TARGET_ATT
0017 . S. RAM ram-150:TARGET_ATT
0018 ( )
0019 C.
0020 C.
0021 C. Set the dump memory area of TARGET_ATT
0022 +. DC 02-48 AOCU_DUMP_SET
0023 BC (07 00 00 00 18 00)
0024 C.
0025 C. <A_STs1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0026 C.
0027 C.
0028 C. Change the TLMFormatNo for the AOCs Dump Format
0029 +. DC 01-22 DHU_MODE_CHNG
0030 BC (04 0b f8)
0031 C.
0032 C. Wait for AOCSDUMP to end
0033 C.
0034 . C. Check the dump memory
0035 C.
0036 C. Result = OK [ ]
0037 C.
0038 +. DC 01-22 DHU_MODE_CHNG
0039 BC (02 0a f8)
0040 C.
0041 C. <A_***>[TLM STS] FMT = 2 [ ]
0042 C.
0043 +. DC 02-8E AOCU_ORB_UPD
0044 . C.
0045 . C. ***** AOCs Commands (Orbital Element Update) *****
0046 C. Update the orbital element
0047 +. DC 02-50 AOCU_ORB_PRPGT_START
0048 BC (16)
0049 + DC 02-8E AOCU_ORB_UPD
0050 C.
0051 C. <A_ORB>[ORBIT] EPC = 1638192.8 +- 1.0 (s) [ ]
0052 C.
0053 . C.
0054 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0055 +. DC 07-FC EIS_MODE_MANU
0056 BC (21 02)
0057 . C. Verify EIS in MANUAL mode
0058 . C. Estimated OBSTBL upload time is 4s
0059 C. *****
0060 C. EIS START OBSTBL LOAD
0061 C. *****
0062 . S. RAM ram-821:EIS_OBSTBL
0063 ( )
0064 +. DC 07-FC EIS_DUMP_OBSTBL
0065 BC (07 07 07 00 00 70 00)
0066 C.
0067 C. Execute, after the success of OBSTBL upload.
0068 C. Set EIS TI-commands
0069 +. TI 2010-07-06 10:49:50.0
0070 DC 07-FC EIS_MODE_CHG_ENA
0071 BC (20)
0072 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0073 C. *****
0074 C. EIS END OBSTBL LOAD
0075 C. *****
0076 C.
0077 . C. ***** MDP `úÁÎ±Í`ò¼Y±±ÉÁ±±±±±±DCBC•×²è *****
0078 C. (¼á°íYÖYÁYËY±YÉYáYçYè±E¼¼±±¼Á»Û±±±)
0079 . S. DC-BC dcbc-402:DCBC
0080 (MDP_known_event)
0081 C.
0082 C.
0083 . C. ***** YDÝ¹•İ Daily±¿ÍÑ±É´Ø±¹±±±±±±±DCBC•×²è *****
0084 . S. DC-BC dcbc-153:DCBC
0085 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0086 C.
0087 C.
0088 . C. ;ãLOSÁY$YÁY~¼Á»Û;ã
0089 C.
0090 . C. ***** LOS *****
0091 C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-452 2010-07-06 13:50:12 144 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÀYB;¼Y³YF¥ÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;È¿¿ãÁã•µ°È»Í×ÁÇãÍYçYÁY×Yí;¼YÉ;ÈÈèµ•ííÉ;ÈãÈ¼°ÇÔã•ã¿¼í¹çãÍ;çÀ®, ùã¹ãèãããÇÁ+¿®ã•ãÈããã³ãÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. SOT table upload
0016 C. *****
0017 . C. < Stop FG table >
0018 +. DC 07-F0 MDP_FG_CTRL_MANU
0019 BC (51)
0020 . C. -----
0021 C. MDP_FG_CTRL_MODE = MANU [ ]
0022 C. -----
0023 C.
0024 . C. <Upload FG Observation Table>
0025 . S. RAM ram-267:MDP_OBS_F
0026 ( )
0027 C.
0028 . C. < Dump RAMID=MDP_OBS_F >
0029 +. DC 07-F0 MDP_DUMP_FGTBL
0030 BC (82 07 00 00 00 38 b8)
0031 C. -----
0032 C. MDP_OBS_F verify = OK/NG [ ]
0033 C. -----
0034 C.
0035 . C. < Upload DPL table >
0036 C.
0037 C. YçYÁY×Yí;¼YÉãîÁ°ãÈSTS_CHKãðOFFãÈã¹ãè
0038 C.
0039 . S. RAM ram-271:MDP_DPL
0040 ( )
0041 C.
0042 . C. < Dump RAMID=MDP_DPL >
0043 +. DC 07-F0 MDP_DUMP_FGTBL
0044 BC (82 07 00 38 b8 00 40)
0045 C. -----
0046 C. MDP_DPL verify = OK [ ]
0047 C. -----
0048 C.
0049 C. STS_CHKãðONãÈã¹ãè
0050 C.
0051 . C. < Update MDP DSC PAR1 >
0052 +. DC 07-F0 MDP_DSC_PAR1_UPDATE
0053 BC (4c)
0054 C. MDP_CMD_CODE = F04C0700[ ]
0055 C. MDP_CMD_CNT (count-up 1) [ ]
0056 C. -----
0057 C.
0058 C.
0059 C. *****
0060 C. SOT TI command set
0061 C. *****
0062 C. Execute, after the success of TBL upload.
0063 +. TI 2010-07-06 10:49:18.0
0064 DC 07-F0 MDP_SOT_MODE_OBSV
0065 BC (40)
0066 . C. -----
0067 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0068 C. -----
0069 C.
0070 C.
0071 C. ***** XRT START *****
0072 C.
0073 +. DC 07-F0 MDP_XRT_CTRL_MANU
0074 BC (c1)
0075 +. DC 07-F0 MDP_XRT_MODE_STBY
0076 BC (c3)
0077 . C. ----- Success Verify ? OK / NG_____
0078 C.
0079 C. XRT Obs. Table Upload
0080 . S. RAM ram-291:MDP_OBS_X
0081 ( )
0082 C.
0083 +. DC 07-F0 MDP_DUMP_XRTTBL
0084 BC (84 07 00 00 00 3a d4)
0085 . C. ----- Comparison Check ? OK / ERR _____
0086 C.
0087 C.
0088 +. DC 07-F0 MDP_XRT_ROI_SET
0089 BC (cd 01 b1 b1 04 04)
0090 +. DC 07-F0 MDP_XRT_ROI_SET
0091 BC (cd 02 b1 b1 08 08)
0092 +. DC 07-F0 MDP_XRT_ROI_SET
0093 BC (cd 03 b1 b1 08 08)
0094 +. DC 07-F0 MDP_XRT_ROI_SET
0095 BC (cd 04 b1 b1 06 06)
```

```
0096 + DC 07-F0 MDP_XRT_ROI_SET
0097 BC (cd 06 80 80 20 20)
0098 + DC 07-F0 MDP_XRT_ROI_SET
0099 BC (cd 07 80 80 20 08)
0100 + DC 07-F0 MDP_XRT_ROI_SET
0101 BC (cd 08 80 80 08 20)
0102 + DC 07-F0 MDP_XRT_ROI_SET
0103 BC (cd 09 80 80 08 08)
0104 + DC 07-F0 MDP_XRT_ROI_SET
0105 BC (cd 0a 85 83 08 08)
0106 + DC 07-F0 MDP_XRT_ROI_SET
0107 BC (cd 0b 80 80 08 06)
0108 + DC 07-F0 MDP_XRT_ROI_SET
0109 BC (cd 0c 90 70 0c 0c)
0110 + DC 07-F0 MDP_XRT_ROI_SET
0111 BC (cd 0d 90 90 08 08)
0112 + DC 07-F0 MDP_XRT_ROI_SET
0113 BC (cd 0f 80 80 06 06)
0114 + DC 07-F0 MDP_XRT_AEC_RESET
0115 BC (d0)
0116 . C. ----- Success Verify ? OK / NG ____
0117 C.
0118 C.
0119 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0120 C.
0121 +. DC 07-F0 MDP_XRT_MODE_OBSV
0122 BC (c2)
0123 +. TI 2010-07-06 10:49:02.0
0124 DC 07-F0 MDP_XRT_MODE_OBSV
0125 BC (c2)
0126 . C. ----- Success Verify ? OK / NG ____
0127 C.
0128 C. ***** XRT END *****
0129 C.
0130 . C. ***** MDP 'uAiaI»o%YnEAdo¹aèDCBC•x²è *****
0131 C. (%â°îYÓYÁYÈYpYÈYáYçYèaE%¼aa¼A»Üa¹aè)
0132 . S. DC-BC dcbc-402:DCBC
0133 (MDP_known_event)
0134 C.
0135 C.
0136 . C. ***** YDY¹.İ Daily±;İÑaE'Øa¹aèDCBC•x²è *****
0137 . S. DC-BC dcbc-153:DCBC
0138 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0139 C.
0140 C.
0141 . C. ;ãLOS¥Á¥S¥Ã¥¼A»Ü;ã
0142 C.
0143 . C. ***** LOS *****
0144 C.
```

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*** OP Sequence for XRT ***

2010/07/06	10:59:54.0	XRT_CTRL_MANU_400_OG [0x190]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/07/06	10:59:56.0	XRT_FOCUS_POSITION_409_OG [0x199]					
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00		
2010/07/06	11:00:00.0	AOCS_Ore-point_Start_1_OG [0x097]					
		AOCU_NM	5	02-76	00 00 00 ac cd		
2010/07/06	11:00:16.0	XRT_FLD_ENA_411_OG [0x19b]					
		MDP_XRT_FLD_ENA	1	07-F0	d8		
2010/07/06	11:00:18.0	XRT_FLD_RESET_412_OG [0x19c]					
		MDP_XRT_FLD_RESET	1	07-F0	da		
2010/07/06	11:00:20.0	XRT_FLRCTRL_ENA_413_OG [0x19d]					
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8		
2010/07/06	11:00:22.0	XRT_ARS_DIS_430_OG [0x1ae]					
		MDP_XRT_ARS_DIS	1	07-F0	d5		
2010/07/06	11:02:58.0	XRT_QT_PROG_SET_433_OG [0x1b1]					
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 07		
2010/07/06	11:03:00.0	XRT_FL_PROG_SET_416_OG [0x1a0]					
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 01		
2010/07/06	11:03:02.0	XRT_CTRL_AUTO_406_OG [0x196]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/07/06	11:15:54.0	XRT_CTRL_MANU_400_OG [0x190]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/07/06	11:15:56.0	XRT_FOCUS_POSITION_409_OG [0x199]					
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00		
2010/07/06	11:16:00.0	AOCS_Ore-point_Start_2_OG [0x098]					
		AOCU_NM	5	02-76	00 00 00 d6 67		
2010/07/06	11:16:16.0	XRT_FLD_ENA_411_OG [0x19b]					
		MDP_XRT_FLD_ENA	1	07-F0	d8		
2010/07/06	11:16:18.0	XRT_FLD_RESET_412_OG [0x19c]					
		MDP_XRT_FLD_RESET	1	07-F0	da		
2010/07/06	11:16:20.0	XRT_FLRCTRL_ENA_413_OG [0x19d]					
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8		
2010/07/06	11:16:22.0	XRT_ARS_DIS_430_OG [0x1ae]					
		MDP_XRT_ARS_DIS	1	07-F0	d5		
2010/07/06	11:18:58.0	XRT_QT_PROG_SET_433_OG [0x1b1]					
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 07		
2010/07/06	11:19:00.0	XRT_FL_PROG_SET_416_OG [0x1a0]					
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 01		
2010/07/06	11:19:02.0	XRT_CTRL_AUTO_406_OG [0x196]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/07/06	11:38:00.0	XRT_CTRL_MANU_408_OG [0x198]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/07/06	12:08:00.0	AOCS_Ore-point_Start_3_OG [0x099]					
		AOCU_NM	5	02-76	00 00 00 00 00		
2010/07/06	12:08:00.5	XRT_CTRL_MANU_400_OG [0x190]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/07/06	12:08:02.5	XRT_FOCUS_POSITION_409_OG [0x199]					
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00		
2010/07/06	12:08:22.5	XRT_FLD_ENA_411_OG [0x19b]					
		MDP_XRT_FLD_ENA	1	07-F0	d8		
2010/07/06	12:08:24.5	XRT_FLD_RESET_412_OG [0x19c]					
		MDP_XRT_FLD_RESET	1	07-F0	da		
2010/07/06	12:08:26.5	XRT_FLRCTRL_ENA_413_OG [0x19d]					
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8		
2010/07/06	12:08:28.5	XRT_ARS_DIS_430_OG [0x1ae]					
		MDP_XRT_ARS_DIS	1	07-F0	d5		
2010/07/06	12:11:04.5	XRT_QT_PROG_SET_433_OG [0x1b1]					
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 07		
2010/07/06	12:11:07.5	XRT_FL_PROG_SET_416_OG [0x1a0]					
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 01		
2010/07/06	12:11:09.5	XRT_CTRL_AUTO_406_OG [0x196]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/07/06	12:23:54.0	XRT_CTRL_MANU_400_OG [0x190]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/07/06	12:23:56.0	XRT_FOCUS_POSITION_409_OG [0x199]					
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00		
2010/07/06	12:24:00.0	AOCS_Ore-point_Start_4_OG [0x09a]					
		AOCU_NM	5	02-76	00 00 00 29 99		
2010/07/06	12:24:16.0	XRT_FLD_ENA_411_OG [0x19b]					
		MDP_XRT_FLD_ENA	1	07-F0	d8		
2010/07/06	12:24:18.0	XRT_FLD_RESET_412_OG [0x19c]					
		MDP_XRT_FLD_RESET	1	07-F0	da		
2010/07/06	12:24:20.0	XRT_FLRCTRL_ENA_413_OG [0x19d]					
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8		
2010/07/06	12:24:22.0	XRT_ARS_DIS_430_OG [0x1ae]					
		MDP_XRT_ARS_DIS	1	07-F0	d5		
2010/07/06	12:26:58.0	XRT_QT_PROG_SET_433_OG [0x1b1]					
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 07		
2010/07/06	12:27:00.0	XRT_FL_PROG_SET_416_OG [0x1a0]					
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 01		
2010/07/06	12:27:02.0	XRT_CTRL_AUTO_406_OG [0x196]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/07/06	12:39:54.0	XRT_CTRL_MANU_400_OG [0x190]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/07/06	12:39:56.0	XRT_FOCUS_POSITION_409_OG [0x199]					
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00		
2010/07/06	12:40:00.0	AOCS_Ore-point_Start_5_OG [0x09b]					
		AOCU_NM	5	02-76	00 00 00 53 33		
2010/07/06	12:40:16.0	XRT_FLD_ENA_411_OG [0x19b]					
		MDP_XRT_FLD_ENA	1	07-F0	d8		
2010/07/06	12:40:18.0	XRT_FLD_RESET_412_OG [0x19c]					

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2010/07/06	12:40:20.0	XRT_FLRCTRL_ENA_413_OG [0x19d]	MDP_XRT_FLD_RESET	1	07-F0	da
			MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2010/07/06	12:40:22.0	XRT_ARS_DIS_430_OG [0x1ae]	MDP_XRT_ARS_DIS	1	07-F0	d5
2010/07/06	12:42:58.0	XRT_QT_PROG_SET_433_OG [0x1b1]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 07
2010/07/06	12:43:00.0	XRT_FL_PROG_SET_416_OG [0x1a0]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 01
2010/07/06	12:43:02.0	XRT_CTRL_AUTO_406_OG [0x196]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/07/06	12:55:54.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/07/06	12:55:56.0	XRT_FOCUS_POSITION_409_OG [0x199]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2010/07/06	12:56:00.0	AOCS_ORe-point_Start_6_OG [0x09c]	AOCU_NM	5	02-76	00 d6 36 b7 8e
2010/07/06	12:56:16.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8
2010/07/06	12:56:18.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da
2010/07/06	12:56:20.0	XRT_FLRCTRL_ENA_413_OG [0x19d]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2010/07/06	12:56:22.0	XRT_ARS_DIS_430_OG [0x1ae]	MDP_XRT_ARS_DIS	1	07-F0	d5
2010/07/06	12:58:58.0	XRT_QT_PROG_SET_433_OG [0x1b1]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 07
2010/07/06	12:59:00.0	XRT_FL_PROG_SET_416_OG [0x1a0]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 01
2010/07/06	12:59:02.0	XRT_CTRL_AUTO_406_OG [0x196]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/07/06	13:16:30.0	XRT_CTRL_MANU_408_OG [0x198]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/07/06	13:46:30.0	AOCS_ORe-point_Start_7_OG [0x09d]	AOCU_NM	5	02-76	00 b4 b5 db 75
2010/07/06	13:46:30.5	XRT_Custom_418_OG [0x1a2]				
2010/07/06	13:47:30.5	XRT_CTRL_AUTO_419_OG [0x1a3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/07/06	14:02:24.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/07/06	14:02:26.0	XRT_FOCUS_POSITION_409_OG [0x199]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2010/07/06	14:02:30.0	AOCS_ORe-point_Start_8_OG [0x09e]	AOCU_NM	5	02-76	00 ac 5b 00 00
2010/07/06	14:02:46.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8
2010/07/06	14:02:48.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da
2010/07/06	14:02:50.0	XRT_FLRCTRL_ENA_413_OG [0x19d]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2010/07/06	14:02:52.0	XRT_ARS_DIS_430_OG [0x1ae]	MDP_XRT_ARS_DIS	1	07-F0	d5
2010/07/06	14:05:28.0	XRT_QT_PROG_SET_433_OG [0x1b1]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 07
2010/07/06	14:05:30.0	XRT_FL_PROG_SET_416_OG [0x1a0]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 01
2010/07/06	14:05:32.0	XRT_CTRL_AUTO_406_OG [0x196]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/07/06	14:18:24.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/07/06	14:18:26.0	XRT_FOCUS_POSITION_409_OG [0x199]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2010/07/06	14:18:30.0	AOCS_ORe-point_Start_9_OG [0x09f]	AOCU_NM	5	02-76	00 b4 b5 24 8b
2010/07/06	14:18:46.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8
2010/07/06	14:18:48.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da
2010/07/06	14:18:50.0	XRT_FLRCTRL_ENA_413_OG [0x19d]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2010/07/06	14:18:52.0	XRT_ARS_DIS_430_OG [0x1ae]	MDP_XRT_ARS_DIS	1	07-F0	d5
2010/07/06	14:21:28.0	XRT_QT_PROG_SET_433_OG [0x1b1]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 07
2010/07/06	14:21:30.0	XRT_FL_PROG_SET_416_OG [0x1a0]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 01
2010/07/06	14:21:32.0	XRT_CTRL_AUTO_406_OG [0x196]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/07/06	14:34:24.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/07/06	14:34:26.0	XRT_FOCUS_POSITION_409_OG [0x199]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2010/07/06	14:34:30.0	AOCS_ORe-point_Start_10_OG [0x0a0]	AOCU_NM	5	02-76	00 d6 36 48 72
2010/07/06	14:34:46.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8
2010/07/06	14:34:48.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da
2010/07/06	14:34:50.0	XRT_FLRCTRL_ENA_413_OG [0x19d]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2010/07/06	14:34:52.0	XRT_ARS_DIS_430_OG [0x1ae]	MDP_XRT_ARS_DIS	1	07-F0	d5
2010/07/06	14:37:28.0	XRT_QT_PROG_SET_433_OG [0x1b1]				

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2010/07/06	14:37:30.0	XRT_FL_PROG_SET_416_OG [0x1a0]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	07
			MDP_XRT_FL_PROG_SET	2	07-F0	c5	01
2010/07/06	14:37:32.0	XRT_CTRL_AUTO_406_OG [0x196]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2010/07/06	14:44:24.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2010/07/06	14:44:26.0	XRT_FOCUS_POSITION_409_OG [0x199]	XRT_FOCUS_POSITION	4	07-F8	22 fe	97 00
2010/07/06	14:44:30.0	AOCS_OrE-point_Start_11_OG [0x0a1]	AOCU_NM	5	02-76	00 29	ca b7 8e
2010/07/06	14:44:46.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8	
2010/07/06	14:44:48.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da	
2010/07/06	14:44:50.0	XRT_FLRCTRL_ENA_413_OG [0x19d]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8	
2010/07/06	14:44:52.0	XRT_ARS_DIS_430_OG [0x1ae]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2010/07/06	14:47:28.0	XRT_QT_PROG_SET_433_OG [0x1b1]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	07
2010/07/06	14:47:30.0	XRT_FL_PROG_SET_416_OG [0x1a0]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	01
2010/07/06	14:47:32.0	XRT_CTRL_AUTO_406_OG [0x196]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2010/07/06	14:55:00.0	XRT_CTRL_MANU_408_OG [0x198]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2010/07/06	15:47:54.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2010/07/06	15:47:56.0	XRT_FOCUS_POSITION_409_OG [0x199]	XRT_FOCUS_POSITION	4	07-F8	22 fe	97 00
2010/07/06	15:48:00.0	AOCS_OrE-point_Start_12_OG [0x0a2]	AOCU_NM	5	02-76	00 4b	4b db 75
2010/07/06	15:48:16.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8	
2010/07/06	15:48:18.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da	
2010/07/06	15:48:20.0	XRT_FLRCTRL_ENA_413_OG [0x19d]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8	
2010/07/06	15:48:22.0	XRT_ARS_DIS_430_OG [0x1ae]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2010/07/06	15:50:58.0	XRT_QT_PROG_SET_433_OG [0x1b1]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	07
2010/07/06	15:51:00.0	XRT_FL_PROG_SET_416_OG [0x1a0]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	01
2010/07/06	15:51:02.0	XRT_CTRL_AUTO_406_OG [0x196]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2010/07/06	16:03:54.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2010/07/06	16:03:56.0	XRT_FOCUS_POSITION_409_OG [0x199]	XRT_FOCUS_POSITION	4	07-F8	22 fe	97 00
2010/07/06	16:04:00.0	AOCS_OrE-point_Start_13_OG [0x0a3]	AOCU_NM	5	02-76	00 53	a5 00 00
2010/07/06	16:04:16.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8	
2010/07/06	16:04:18.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da	
2010/07/06	16:04:20.0	XRT_FLRCTRL_ENA_413_OG [0x19d]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8	
2010/07/06	16:04:22.0	XRT_ARS_DIS_430_OG [0x1ae]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2010/07/06	16:06:58.0	XRT_QT_PROG_SET_433_OG [0x1b1]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	07
2010/07/06	16:07:00.0	XRT_FL_PROG_SET_416_OG [0x1a0]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	01
2010/07/06	16:07:02.0	XRT_CTRL_AUTO_406_OG [0x196]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2010/07/06	16:33:30.0	XRT_CTRL_MANU_408_OG [0x198]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2010/07/06	17:24:24.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2010/07/06	17:24:26.0	XRT_FOCUS_POSITION_409_OG [0x199]	XRT_FOCUS_POSITION	4	07-F8	22 fe	97 00
2010/07/06	17:24:30.0	AOCS_OrE-point_Start_14_OG [0x0a4]	AOCU_NM	5	02-76	00 4b	4b 24 8b
2010/07/06	17:24:46.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8	
2010/07/06	17:24:48.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da	
2010/07/06	17:24:50.0	XRT_FLRCTRL_ENA_413_OG [0x19d]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8	
2010/07/06	17:24:52.0	XRT_ARS_DIS_430_OG [0x1ae]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2010/07/06	17:27:28.0	XRT_QT_PROG_SET_433_OG [0x1b1]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	07
2010/07/06	17:27:30.0	XRT_FL_PROG_SET_416_OG [0x1a0]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	01
2010/07/06	17:27:32.0	XRT_CTRL_AUTO_406_OG [0x196]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2010/07/06	17:40:24.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2010/07/06	17:40:26.0	XRT_FOCUS_POSITION_409_OG [0x199]	XRT_FOCUS_POSITION	4	07-F8	22 fe	97 00

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2010/07/06	17:40:30.0	AOCS_ORe-point_Start_15_OG [0x0a5]							
		AOCU_NM	5	02-76	00	29	db	48	72
2010/07/06	17:40:46.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0				d8	
2010/07/06	17:40:48.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0				da	
2010/07/06	17:40:50.0	XRT_FLRCTRL_ENA_413_OG [0x19d]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0				c8	
2010/07/06	17:40:52.0	XRT_ARS_DIS_430_OG [0x1ae]							
		MDP_XRT_ARS_DIS	1	07-F0				d5	
2010/07/06	17:43:28.0	XRT_QT_PROG_SET_433_OG [0x1b1]							
		MDP_XRT_QT_PROG_SET	2	07-F0				c4	07
2010/07/06	17:43:30.0	XRT_FL_PROG_SET_416_OG [0x1a0]							
		MDP_XRT_FL_PROG_SET	2	07-F0				c5	01
2010/07/06	17:43:32.0	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0				c0	
2010/07/06	17:57:24.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0				c1	
2010/07/06	17:57:26.0	XRT_FOCUS_POSITION_401_OG [0x191]							
		XRT_FOCUS_POSITION	4	07-F8		22	ff	aa	00
2010/07/06	17:57:30.0	AOCS_ORe-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	00	00	00	00	00
2010/07/06	17:57:46.0	XRT_FLD_DIS_402_OG [0x192]							
		MDP_XRT_FLD_DIS	1	07-F0				d9	
2010/07/06	17:57:48.0	XRT_FLRCTRL_DIS_403_OG [0x193]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0				c9	
2010/07/06	17:57:50.0	XRT_ARS_DIS_404_OG [0x194]							
		MDP_XRT_ARS_DIS	1	07-F0				d5	
2010/07/06	18:00:28.0	XRT_QT_PROG_SET_407_OG [0x197]							
		MDP_XRT_QT_PROG_SET	2	07-F0				c4	03
2010/07/06	18:00:30.0	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0				c0	
2010/07/06	18:07:30.0	AOCS_ORe-point_Start_16_OG [0x0a6]							
		AOCU_NM	5	02-76	03	00	00	00	00
2010/07/06	18:55:30.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0				c1	
2010/07/06	18:55:32.0	XRT_FOCUS_POSITION_409_OG [0x199]							
		XRT_FOCUS_POSITION	4	07-F8		22	fe	97	00
2010/07/06	18:55:52.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0				d8	
2010/07/06	18:55:54.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0				da	
2010/07/06	18:55:56.0	XRT_FLRCTRL_ENA_413_OG [0x19d]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0				c8	
2010/07/06	18:55:58.0	XRT_ARS_DIS_420_OG [0x1a4]							
		MDP_XRT_ARS_DIS	1	07-F0				d5	
2010/07/06	18:58:32.0	XRT_QT_PROG_SET_426_OG [0x1aa]							
		MDP_XRT_QT_PROG_SET	2	07-F0				c4	06
2010/07/06	18:58:34.0	XRT_FL_PROG_SET_416_OG [0x1a0]							
		MDP_XRT_FL_PROG_SET	2	07-F0				c5	01
2010/07/06	18:58:36.0	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0				c0	
2010/07/06	19:50:30.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0				c1	
2010/07/06	20:33:00.0	XRT_Custom_418_OG [0x1a2]							
2010/07/06	20:34:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0				c0	
2010/07/06	21:29:00.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0				c1	
2010/07/06	22:00:00.0	AOCS_ORe-point_Start_17_OG [0x0a7]							
		AOCU_NM	5	02-76	00	48	72	d3	8e
2010/07/06	22:09:30.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0				c1	
2010/07/06	22:09:32.0	XRT_FOCUS_POSITION_409_OG [0x199]							
		XRT_FOCUS_POSITION	4	07-F8		22	fe	97	00
2010/07/06	22:09:52.0	XRT_AEC_RESET_410_OG [0x19a]							
		MDP_XRT_AEC_RESET	1	07-F0				d0	
2010/07/06	22:09:54.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0				d8	
2010/07/06	22:09:56.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0				da	
2010/07/06	22:09:58.0	XRT_FLRCTRL_ENA_413_OG [0x19d]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0				c8	
2010/07/06	22:10:00.0	XRT_ARS_DIS_435_OG [0x1b3]							
		MDP_XRT_ARS_DIS	1	07-F0				d5	
2010/07/06	22:10:02.0	XRT_QT_PROG_SET_425_OG [0x1a9]							
		MDP_XRT_QT_PROG_SET	2	07-F0				c4	04
2010/07/06	22:10:04.0	XRT_FL_PROG_SET_416_OG [0x1a0]							
		MDP_XRT_FL_PROG_SET	2	07-F0				c5	01
2010/07/06	22:10:06.0	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0				c0	
2010/07/06	23:07:30.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0				c1	
2010/07/06	23:39:00.0	XRT_Custom_418_OG [0x1a2]							
2010/07/06	23:40:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0				c0	
2010/07/07	00:46:00.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0				c1	
2010/07/07	01:16:00.0	XRT_Custom_418_OG [0x1a2]							
2010/07/07	01:17:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0				c0	
2010/07/07	02:23:30.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0				c1	

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2010/07/07	02:54:30.0	XRT_Custom_418_OG [0x1a2]							
2010/07/07	02:55:30.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	03:51:30.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	04:00:00.0	AOCS_ORe-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2010/07/07	04:33:00.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	04:33:02.0	XRT_FOCUS_POSITION_401_OG [0x191]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2010/07/07	04:33:22.0	XRT_FLD_DIS_402_OG [0x192]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2010/07/07	04:33:24.0	XRT_FLRCTRL_DIS_403_OG [0x193]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2010/07/07	04:33:26.0	XRT_ARS_DIS_404_OG [0x194]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2010/07/07	04:36:04.0	XRT_QT_PROG_SET_441_OG [0x1b9]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 08				
2010/07/07	04:36:06.0	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	05:32:00.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	06:17:00.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	06:17:02.0	XRT_FOCUS_POSITION_401_OG [0x191]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2010/07/07	06:17:22.0	XRT_FLD_DIS_402_OG [0x192]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2010/07/07	06:17:24.0	XRT_FLRCTRL_DIS_403_OG [0x193]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2010/07/07	06:17:26.0	XRT_ARS_DIS_404_OG [0x194]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2010/07/07	06:20:04.0	XRT_QT_PROG_SET_407_OG [0x197]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 03				
2010/07/07	06:20:06.0	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	06:53:29.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	06:53:31.0	XRT_FOCUS_POSITION_401_OG [0x191]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2010/07/07	06:53:51.0	XRT_FLD_DIS_402_OG [0x192]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2010/07/07	06:53:53.0	XRT_FLRCTRL_DIS_403_OG [0x193]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2010/07/07	06:53:55.0	XRT_ARS_DIS_404_OG [0x194]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2010/07/07	06:56:33.0	XRT_QT_PROG_SET_441_OG [0x1b9]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 08				
2010/07/07	06:56:35.0	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	07:59:54.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	07:59:56.0	XRT_FOCUS_POSITION_409_OG [0x199]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2010/07/07	08:00:00.0	AOCS_ORe-point_Start_16_OG [0x0a6]							
		AOCU_NM	5	02-76	03 00 00 00 00				
2010/07/07	08:00:16.0	XRT_AEC_RESET_410_OG [0x19a]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2010/07/07	08:00:18.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2010/07/07	08:00:20.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2010/07/07	08:00:22.0	XRT_FLRCTRL_ENA_413_OG [0x19d]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2010/07/07	08:00:24.0	XRT_ARS_DIS_420_OG [0x1a4]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2010/07/07	08:02:58.0	XRT_QT_PROG_SET_426_OG [0x1aa]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 06				
2010/07/07	08:03:00.0	XRT_FL_PROG_SET_416_OG [0x1a0]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 01				
2010/07/07	08:03:02.5	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	08:52:00.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	09:28:00.0	XRT_Custom_418_OG [0x1a2]							
2010/07/07	09:29:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	10:34:00.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	11:06:30.0	XRT_Custom_418_OG [0x1a2]							
2010/07/07	11:07:30.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	12:15:30.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	12:45:00.0	XRT_Custom_418_OG [0x1a2]							
2010/07/07	12:46:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	13:54:00.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	14:29:00.5	XRT_Custom_418_OG [0x1a2]							
2010/07/07	14:30:00.5	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				

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2010/07/07	15:32:30.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	16:18:30.0	XRT_Custom_418_OG [0x1a2]							
2010/07/07	16:19:30.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	17:11:00.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	17:56:54.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	17:56:56.0	XRT_FOCUS_POSITION_401_OG [0x191]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2010/07/07	17:57:00.0	AOCS_Ore-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2010/07/07	17:57:16.0	XRT_FLD_DIS_402_OG [0x192]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2010/07/07	17:57:18.0	XRT_FLRCTRL_DIS_403_OG [0x193]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2010/07/07	17:57:20.0	XRT_ARS_DIS_404_OG [0x194]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2010/07/07	17:59:58.0	XRT_QT_PROG_SET_407_OG [0x197]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 03				
2010/07/07	18:00:00.0	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	18:06:54.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	18:06:56.0	XRT_FOCUS_POSITION_409_OG [0x199]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2010/07/07	18:07:00.0	AOCS_Ore-point_Start_18_OG [0x0a8]							
		AOCU_NM	5	02-76	01 00 00 00 00				
2010/07/07	18:07:16.0	XRT_AEC_RESET_410_OG [0x19a]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2010/07/07	18:07:18.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2010/07/07	18:07:20.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2010/07/07	18:07:22.0	XRT_FLRCTRL_ENA_413_OG [0x19d]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2010/07/07	18:07:24.0	XRT_ARS_DIS_420_OG [0x1a4]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2010/07/07	18:09:58.0	XRT_QT_PROG_SET_442_OG [0x1ba]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 09				
2010/07/07	18:10:00.0	XRT_FL_PROG_SET_416_OG [0x1a0]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 01				
2010/07/07	18:10:02.5	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	18:49:30.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	19:32:00.5	XRT_Custom_418_OG [0x1a2]							
2010/07/07	19:33:00.5	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	20:28:00.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	21:09:30.0	XRT_Custom_418_OG [0x1a2]							
2010/07/07	21:10:30.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	22:06:30.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	22:45:00.0	XRT_Custom_418_OG [0x1a2]							
2010/07/07	22:46:00.5	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	23:06:54.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/07	23:06:56.0	XRT_FOCUS_POSITION_409_OG [0x199]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2010/07/07	23:07:00.0	AOCS_ORe-point_Start_19_OG [0x0a9]							
		AOCU_NM	5	02-76	02 00 00 00 00				
2010/07/07	23:07:16.0	XRT_AEC_RESET_410_OG [0x19a]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2010/07/07	23:07:18.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2010/07/07	23:07:20.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2010/07/07	23:07:22.0	XRT_FLRCTRL_ENA_413_OG [0x19d]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2010/07/07	23:07:24.0	XRT_ARS_DIS_420_OG [0x1a4]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2010/07/07	23:09:58.0	XRT_QT_PROG_SET_442_OG [0x1ba]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 09				
2010/07/07	23:10:00.0	XRT_FL_PROG_SET_416_OG [0x1a0]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 01				
2010/07/07	23:10:02.5	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/07	23:45:00.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/08	00:14:30.0	XRT_Custom_418_OG [0x1a2]							
2010/07/08	00:15:30.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/08	01:23:30.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/07/08	01:53:00.0	XRT_Custom_418_OG [0x1a2]							
2010/07/08	01:54:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/07/08	03:00:00.0	XRT_CTRL_MANU_408_OG [0x198]							

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2010/07/08	03:31:30.0	XRT_Custom_418_OG [0x1a2]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/07/08	03:32:30.0	XRT_CTRL_AUTO_419_OG [0x1a3]						
2010/07/08	04:29:30.0	XRT_CTRL_MANU_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/07/08	05:10:00.0	XRT_Custom_418_OG [0x1a2]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/07/08	05:11:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]						
2010/07/08	05:42:24.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/07/08	05:42:26.0	XRT_FOCUS_POSITION_401_OG [0x191]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/07/08	05:42:30.0	AOCS_OrE-point_Start_3_OG [0x099]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		
2010/07/08	05:42:46.0	XRT_FLD_DIS_402_OG [0x192]	AOCU_NM	5	02-76	00 00 00 00 00		
2010/07/08	05:42:48.0	XRT_FLRCTRL_DIS_403_OG [0x193]	MDP_XRT_FLD_DIS	1	07-F0	d9		
2010/07/08	05:42:50.0	XRT_ARS_DIS_404_OG [0x194]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2010/07/08	05:45:28.0	XRT_QT_PROG_SET_407_OG [0x197]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2010/07/08	05:45:30.0	XRT_CTRL_AUTO_406_OG [0x196]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 03		
2010/07/08	10:37:00.0	AOCS_OrE-point_Start_3_OG [0x099]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
			AOCU_NM	5	02-76	00 00 00 00 00		